

AF
160018/B
AFINE.
E. Williams

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RECEIVED

Applicant : Yuan-Ping Pang

Art Unit : 1631

Serial No. : 09/595,650

Examiner : M. Sheinberg

Filed : June 16, 2000

Title : MOLECULAR MODELING FOR METALLOPROTEINS

TECH CENTER 1600 2900

BOX AF

Commissioner for Patents

Washington, D.C. 20231

COPY OF PAGES
ORIGINALLY FILEDRESPONSE AND AMENDMENT

This communication is responsive to the Office Action mailed April 19, 2002 (hereinafter "OA"). Applicant respectfully requests reconsideration of the Examiner's rejection of claims 37-54 and withdrawal of claims 55-72 in view of the following amendments and remarks.

AMENDMENT

Please amend claims 37 and 55 as follows:

37. (Amended twice) A machine having a memory that contains data representing a simulated metal ion generated by a molecular dynamics simulation, wherein said simulated metal ion comprises center atom having a van der Waals radius greater than zero covalently linked to one or more dummy atoms having a van der Waals radius of about zero, wherein the overall charge of said metal ion is evenly distributed among said dummy atoms and wherein said center atom has a charge of zero.

CERTIFICATE OF MAILING BY FIRST CLASS MAIL

I hereby certify under 37 CFR §1.8(a) that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage on the date indicated below and is addressed to the Commissioner for Patents, Washington, D.C. 20231.

Date of Deposit

June 18, 2002

Signature

Kristin Palmieri

Typed or Printed Name of Person Signing Certificate

Kristin Palmieri

DO NOT ENTER MRB 9/17/02

55. (Amended once) A computer readable medium having computer executable instructions stored thereon, wherein the execution of said instructions simulates a metal ion, said metal ion comprising a center atom having a van der Waals radius greater than zero covalently linked to one or more dummy atoms having a van der Waals radius of about zero, wherein the overall charge of said metal ion is evenly distributed among said dummy atoms and wherein said center atom has a charge of zero.